

Claims

What is claimed is:

1. A high strength stringed musical instrument neck, which is constructed so that the tension from a plurality of strings acting upon it in singular plane is controlled and redirected by a monocoque outer structure as an opposing force to the tension imposed by the plurality of strings, and improved method of construction comprising:

a length of hard wood shaped as the instruments neck; and

two separate strengthening beams made from graphite and epoxy resins and, adhesively securing said beams to and within the wood; and

one external strengthening shell made from carbon cloth and epoxy resins, and adhesively securing said shell to the wood and both beams inclusive; and

a fingerboard adhesively secured to the assembly, and

a two way truss rod assembly

2. A high strength stringed musical instrument neck, wherein both strengthening beams are made from graphite in epoxy resins and one of which is in the form of a flat plate and the other is in the form of a rectangular rod and each having a generally flat bottom and top surface.

3. A high strength stringed musical instrument neck, wherein the external strengthening shell is made from a plurality of layers of carbon cloth cast in epoxy resins and formed upon a mold and the weave of said cloth is disposed at an angle of 45 degrees to the longitudinal axis of said mold to form an external truss structure and having a semi-elliptical cross sectional shape.

4. A high strength stringed musical instrument neck comprising the steps of:

providing a structural length of hard wood shaped as the instruments neck; and

providing two graphite strengthening beams; and

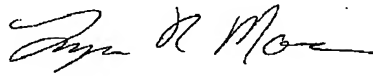
machining the length of hard wood to accept the installation of said beams; and

adhesively securing said beams; and

providing an external carbon fiber strengthening shell; and
adhesively securing said shell to the wood and both beams inclusive; and

providing a two way truss rod, and

providing a fingerboard and adhesively securing it to the assembly.

A handwritten signature in black ink, appearing to read "Ryan R. Mace". The signature is fluid and cursive, with the first name "Ryan" and last name "Mace" being clearly legible, and the middle initial "R." in between.